

TPX-24x

Triplexer | 700+800+900 / 1800 / 2100 | Single and Twin Units | Indoor / Outdoor

- Combines 700+800+900, 1800 and 2100 MHz into a single output
- Usable at BTS or antenna end
- Available as single or twin unit, with Auto-Sense or various DC/AISG bypass configurations
- Suitable for indoor or outdoor applications
- Pole or wall mounting
- Available with 7/16-DIN or 4.3-10 Connectors

Ordering Options	Single Unit		Twin Unit	
	7/16-DIN	4.3-10	7/16-DIN	4.3-10
When ordering replace "x" with correct option for bypass configuration and single or twin unit.				
With DC/AISG Auto-Sense	TPX-24A	TPX-24A-43F	TPX-24AA	TPX-24AA-43F
DC/AISG bypass from common to 2100 port	TPX-242	TPX-242-43F	TPX-243	TPX-243-43F
DC/AISG bypass from common to 1800 port	TPX-240	TPX-240-43F	TPX-241	TPX-241-43F
DC/AISG bypass from common to 700+800+900 port	TPX-248	TPX-248-43F	TPX-249	TPX-249-43F
DC/AISG bypass from common to 1800 & 2100 ports	TPX-2410	TPX-2410-43F	TPX-2411	TPX-2411-43F
DC/AISG bypass from common to 700+800+900 & 2100 ports	TPX-2412	TPX-2412-43F	TPX-2413	TPX-2413-43F
Full DC/AISG bypass	TPX-244	TPX-244-43F	TPX-245	TPX-245-43F
No DC/AISG bypass	TPX-246	TPX-246-43F	TPX-247	TPX-247-43F

Electrical Characteristics			
700+800+900 Channel (Port 1) - Common			
Frequency Band		698-960 MHz	
Insertion Loss	Typical	0.1 dB	
	Max	0.2 dB	
Return Loss		> 18 dB	
Rejection	1710-1880 MHz	50 dB	
	1920-2170 MHz	50 dB	
Continuous Average Power		250 W	
Intermodulation, 2x43 dBm TX Carrier, IM3		-117 dBm	
1800 Channel (Port 2) - Common			
Frequency Band		1710-1880 MHz	
Insertion Loss	Typical	0.2 dB	
	Max	0.45 dB	
Return Loss		> 18 dB	
Rejection	698-960 MHz	50 dB	
	1920-2170 MHz	50 dB	
Continuous Average Power		250 W	
Intermodulation, 2x43 dBm TX Carrier, IM3		-117 dBm	
2100 Channel (Port 3) - Common			
Frequency Band		1920-2170 MHz	
Insertion Loss	Typical	0.2 dB	
	Max	0.5 dB	
Return Loss		> 18 dB	
Rejection	698-1880 MHz	50 dB	
Continuous Average Power		250 W	
Intermodulation, 2x43 dBm TX Carrier, IM7		-125 dBm (typical)	

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General Electrical	Standard Models	Models With Auto-Sense
DC Bypass Rating	3 A	2 A, drop max 2.4 V
AISG Pass	Yes	---
AISG RL	---	> 12 dB
AISG Loss	---	< 1 dB
MTBF	1 Mh (min)	1 Mh (min)
Lightning Protection	±5 kA 8/20 μs	±5 kA 8/20 μs
Input Voltage Power	---	8-30 V max 0.3 W
Environmental		
Temperature Range	-40° to +65° C (-40° to 149° F)	
Environmental	ETS 300 019-1-4 Class 4.1E	
Safety	IEC/EN 62368-1	
Ingress Protection	IP67	
Mechanical Characteristics		
	Single Unit	Twin Unit
Finish	Light Grey, NCS 1502-R	
Connectors	7/16 Female or 4.3-10 Female	
Dimensions (H x W x D)	150 x 170 x 50 mm (5.9 x 6.7 x 2.0 in)	TBD
Weight	2.6 kg (5.7 lbs)	TBD
Mounting Options		
	Description	
Pole / Wall Bracket	Two metal clamps for pole mount included; Pole Diameter 40-140 mm (1.57-5.5 in)	

Block Diagrams						
DC/AISG Bypass 2100 Port	DC/AISG Bypass 1800 Port	DC/AISG Bypass 700+800+900 Port	DC/AISG Bypass 1800 & 2100 Port	DC/AISG Bypass 700+800+900 & 2100 Port	Full DC/AISG Bypass	No DC/AISG Bypass
<p>700-900 1800 2100</p> <p>Common</p>	<p>700-900 1800 2100</p> <p>Common</p>	<p>700-900 1800 2100</p> <p>Common</p>	<p>700-900 1800 2100</p> <p>Common</p>	<p>700-900 1800 2100</p> <p>Common</p>	<p>700-900 1800 2100</p> <p>Common</p>	<p>700-900 1800 2100</p> <p>Common</p>
TPX-242 TPX-243	TPX-240 TPX-241	TPX-248 TPX-249	TPX-2410 TPX-2411	TPX-2412 TPX-2413	TPX-244 TPX-245	TPX-246 TPX-247

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